

Important

Ectures on Hygiene.
Nol. III.

ale 75 # 1

not to

(From vol. II) Men of great intellectual performance with delicate or imporfect health: Rich Barton, J. Stunt Will, Charles R. Darwing .. Treat men with vigorous foolith! Alexander, Cosar, Napolen, Wellington, Walter Foot, Lord Palmerston, Quier, Muhilon, , A. Wetmbold, agasson, The rule is with the latter class. ellens sand most readily duells, & effectively acts, in Corpore Sano.

Lecture XXVII (continued) The air is important. In a warm room, we cannot concentrate the mind. This is noticed in changes of tem-HAMIE. perature. In the La Platte states, the people are quarrelsome when the North wind prevails. Sinoco. - Languar of Tropics. In the American climate, there is a peculiarly exciting quality. This is seen in the insang asylums. Foreigners who come here are affected in the same way. The importance of food & drink is FOOD great. If we eat much, our minds will DRINK not be brilliant. Indigestion interferes with the brain. In mental work, concentrated food CONCENTRATORO is necessary. It is probably that in America, we eat too much In regard to drink, alcohol is bad. ALCOHOL Stimulants are disadvantageous unless the system is below par. Dink beer, think heer Some great men were great drinkers; DRINKERS. for instance, Danl. Webster & Edgar A. Pol.

See 619 Average Age at Math ANERAGE 17 DEATH 152 French Lavants 69 yrs. Howard University Graduates 58 " British Poets 56 " Celebrated Preachers 69 " Statesmen 70 .. Victims of Over, worked Brains rd anatomist MCTIMIS OF OVER-WORKED Béclard BRAINS. minister of state Périer -Romilly Castlereagh. Chatterton poet Laman Blanchard Buckland geologist Hugh Miller Admiral Pitzroy sanitarian A. W. Robertson breacher Toucant Scientist

They would have been better without it. Burke never drank; nor known nor Whitter. Crecise is necessary. Lecture XXVIII. Sleep is necessary especially after SLEEP. brain work. If we had not brains we would require no sleep. It is most necessary in early life. An infant, sleeps is its lime. I child prematurely born, sleeps nearly all the time, Children under loctro, re quire, 10 hours in 24. Adults require fromby to 9 sleep should be continuous. This is difficult in the practice of medicine. Rising in the night, merely to go to the window, is equal to the loss of two hours, particularly in children. It is a great mistake to wa ken children at a certain hour. They should waken by degrees. If the house catches fire, they should be carried out askep.

A llumbolat Napoleon I As to Ared. The Great - Inne Charles of lesse in a very good deeper at note again at 6. So also, in regard to Nap. I, Bourneaux contracts the common numor. (Six In Blave - Richery " statut (Harried on Waske fulrus) End of 28th Lecture, 1869.

Even for an adult, sudden rousing is bad. It is unjustly thought to be lasy to lie in bed in the mornings. The true plan is to waken by TRUE PLAN. degrees. This is especially so if the brain is fatigued If the constitution is healthy, only a certain amount of sleep is required. There have been some noted short SHORT SLEEPERS sleepers. Frederickhe Great, & pro, Hunter, slept 5 hours in 24. Elliotteleht 4 hours. It is asserted that a French general slept but thr. in 24. This in incredible. The injurious effects of want of slept are at first, nervous debility. In the end life is shortened It is well to know how, to get sleep when deprived of it. In sleep less TOGET blood goes through the brain than SLEEP awake Dr. Hammond says that one mode of bringing it on, when troubled by insomma caused by brain work or excitement, is to sit up & go to sleep in a chair.

Six We Scott unto leforebrukhan

This will not always insure sleep. It is only a last resort. Habit has effect on sleep. Dr. Wood, from long night-study cannot nows sleep at night It is most hygienic to study in HYGIENIC the day, and sleep at night. This is shown by the rotation of day & night; and by the fact that artificial light injures the eyes For hard mental work, the norning is the best lime Mental Influences affecting health: CIVILIZATION Civilization. There are several ways of looking at this. 1st. Compare the Savage of the civilized, generally. Some think the savage is the state of nature Ours, though too artificial, approaches nearer. SA AGA'S Savages are not as large & muscular as civilized men. Their lives are shorter, disease & insanity are frequent. The savage is inferior to the Curlized man.

from head statile attell chief and greek

and. Compare the degrees of civilization A fabulous idea is enterlained of the men of a few generations ago. They are supposed to be larger and stronger than we. It is just the opposite. A sword of two centures ago is too little now. Men of our day cannot get into armor of that lime. While we cannot assert our powers as superior to the gereek, our four er of acquisition is greater. There has been no deterioration. Average Age at Death [Page 2] AVERAGE AT DEATH. Chancer, Milton & Shakespeare reached full age. Lodid Macauley, De Zuincy, Wordsworth, Southey, Scott, Jefferson, Jackson, Everett, Clay, Eurier, and Humboldt. Many Somewille, 92; Moles Dans INSANITY Does insanity increase with advance of civilization? Statistics are imperfect. In a Great Frilain, the increase is INCREASE from lin 1000, to 1 in 300. In lo. S. from 1 in 978 to 1 in 378 In Massachusetts in 1854, it was from lin 676 to 1 in 300.

10. IN I made supplied to the state of the entire introduction of the Balance, Maxim: For the perfect development and actually of any important organ in the human economy, at is necessary to maintain a balanced development & action of every other emportant organ of the expless.

In the W.S. there are more young in-U.S. same than anywhere else. In this country the greatest no is le tween 20 & 30 yrs. In aurope it is 30-40. Suppose insanity has increased. This PEFECT IN SYSTEM. does not prove that civilization has caused it. It shows a defect in our system. Neglect of physical culture, a contempt for exercise, is what cause not harm. It should include intellectual, mor-The object of Education is to give the Many the use & command of its powers, It was once supposed that to be idu-EDUCATION Cated, one must know several languages. The best mind is that which has the most power to use facts. It must be remembered that the YOUNG young brains is tender. It must not be forced. When a child is learning its letters, its mind cannot be concen trated A child should not have to learn

Fre trobel first kindergarter. Miss Probody in U.S. and of 2.9th Lecture, 1867 x * os in gymnastics; light Theavy.

much by tack-work. The best way is to let it use its senses and ask questions. It will learn more in this Way. No child should go to school before 01 Tor syears of age; I then I should have but 3 or 4 hours a day. As preparatory, the Rindergarten (Rinimogouston) is very good. The child's mind is developed on a natural plan The average age of the pupils, is oyears. No lesson is allowed longer than 15 minutes At Tyearsold, a child should have 10 how's sleep, & 1 of occupation; and so on according to age. X

There are two systems of study.

One urges systematic task work; & TWO SYSTEMS OF STUDY. the other aims at spontaneous efforts of the mind. No healthy mental activity is disagreeable Is in gymnastics, both siptems may be combined, the light k-In studying the interest must be ing first. maintained. There must be something to rouse up the mind. We can take

much he took with shoulest ways * By placing before the mind as often as possible those objects, conceptions and thoughts which of their own nature tend to arouse desirable emotions; and keeping away although an opposite nature and tendency. We granted to what about here to ho infate the fitted to contest the and and according to a gold from the little a way on bought last with the other ains attacker lancour i for of the universe I to healthy now tal artist a The study inter in the Course of the new person of the second or the state of the

advantage of the automatism of the brain. This applies to the emotional as well as the intellectual powers. It is wise to remember that a child's IMMATURITY organism is immature et cannot con-CHILD'S BRAIN. trol itself well. Parents should not expect their children to show, as much control as they themselves. Instead of compelling a child to stop crying, it attention should be drawn of Healthy EDUC AMON children, girls especially, often lose their health at school. Chorea, nervousness, inflammation of the brains, and the foundations of insanity, are often contracted at school. Ask soon as the brain is jaded & the appetite lost, school should be left. Health first, education afterwards. The English schools have 3 or 4 hours daily. In medical colleges, the time is too long. More could be learned, with fewer hours of work. The brain willnot

HEALTH FIRST!

SCHOOLS.

Eauses of Insanity
In 1000 Cases

Thepecal Causes Moral Causes Intemperance - 164 Domestic Loubles - 241 Chilepsy _____ 68 Grief. Childbearing, vc. - 45 Wounded Seelings Vicious Habits __ 40 Religious Excitement 56 Bodily Diseases _ 18 Fisappointed Affection. Inight ____ 53 Old Age _____ 8 48 Political rother Over-Study * 34 Injuries ____ 4 8. Wondstermined-27 cases.

establishment to 1869 (inclusion) 5535, over study 45, Euch at healt. 973.

CRISES PLITY.

absorb as much in Thows as in 4. Girls should be more out of doors than they are, and they should go to school The brain can be over worked even in the adult. victims of over-worked brains = page 2. Hugh Miller rexined a good constitution by over-brainwork. The hygiene of study is then of interest. DANGERS The dangers of study, are, cerebral STOOK. enhaustion, predisposition to disease, general delility, dispersia, and loss of eye-sight. Pecture XXIX Cerebral exhaustion may or may not be retrievable. If the functional action is impaired, memory and the productive powers are the first-to give way. It takes a very long time to build LONG PLYIME ED. up the brain hower again (about 3 years) The symptoms of over-brain work, are SYMPTOMS. drowsiness & tightness in back of the head The diseases which are caused, are

18 to later the department of the second in the ladult, and les Victimis excover normed brains page 2 the will applied to a series of the states and in which the second of the in the second of the following and also work brain work especially so, - to take a quardeal frepose. End of 29th Lecture, 1869

approplexy (change in the blood vessels), DISEASES CAUSED. paralysis, softening (bywaste), and insanity. In the last thereis atrophy. Close study demands animal food. In debility of the body, where enercise can not be taken; repose is best. Distressing nervousness, dyspepsia, and OVER-STUDY consumption of new force, are & injury to sight are caused by over-study are, also-ERRORS lute excess in amount of study, indifference MANAGEMENT. no exercise, irregularity of meals, and How many hours should we study? The HOW MOON many with most enduring heaple. West, the English. The French of Italians have activity. We area combination. The maximum amount forage German is 14-16 hours in 24. Scott found 6 hours a day enough. Beliver, 3 hours. The safest number is 8 hours There are two very erroneous ideas: to WRONG study late at night, and to riseat sun IDEAS.

20 last deletel of the lot a store and over one and relative proceedings of the forter alf Ince commenced was a light of me attent notively. He are a last fire he I H Marin La St. 1

rise. "Early to bed & early to rise" should be carried out in both respects. Some examp stories are related of chort STORIES Slepers. Napoleon is said to have slept but 4 hours in 24. This is a great mistake He sometimes sleft very long. Humboldt was silent while it was asserted that he slept but 4. Few appreciate the disadvantage of long continuous study. The mere sitting long in one position is bad. L'atique of any organ follows continuousness. One hour at a time is enough to study without-relaxation of the attention. Two are enough without enercise. Monotony is more fatiguing than vaziety. The brain is a multiple organ. When we are wearied with one study we should take another. Variation of pursuits may explain the UPRIATION. endurance of great men. aristotle, Souther, Thumboldt Bodily exercise prevents an accumulation of blood in the brain Regularity of meals, & time for digestion

ONE HOUR.

22 be comed in the to instead ... exceed Examp the Branchally & chart Havendolds was national while at was alwated Continue of a love parison of to charge without released attended the land Themetonies to to to to his in a this we are manied with our study we edealed large and present may explain the en la partir de la lace de lace de la lace de lace de lace de lace de lace de la lace de lace de lace de lace de la lace de la In the stories of week an account

are necessary.
The eye is injured by dim or flickering light. The Braand burner is the EYE. Recapitulation: - 3 hours work is enough for the untrained mind; & for any. Sliep Thours. Sit one hour at a time; only 2, without 2 hour exercise. Never read in allook more than 3 hours a day, Lake 2 hrs. energe a day (dumb-bells ofnecessary). Never eat and read at the same time. Do not sluty for zanhour after a meal. Read as little as possible by gas light; never by any imperfect light. While over work is so injurious, idleness is more so. Dull persons often get insane, The normal balance of the mind is not kept, That explem of education which is

GENERAL EDUCATION

general, is best. It is a mistake to force a child in one subject. The morally inteller to development is thus injured.

IMAGINATION

In America, the imagination is too much developed. Here the number frovels read by one person, is about one aday and two

on Sunday. One ayear is enough. Even the emotional balance may be EMOTIONAL E. destroyed Benevolence, religious excitements. Love religion is naturally healthy Many patients have religious delivions caused by injudicious religiogaism. Other excitements, as political are often dangerous. The propensity of marvelousness has to be kept-down. Isms - Pseudo-Sciences. In the American mind there is awant of steadiness. We are satisfied with nothing less than some great afair, to stir us up SYMATHY Offect of Sympathy: - If a person yours another will doit of a girl in school, has hysteries, 'zadozen will have them in a week. When nitrous onide is given, all who take it will do as the first did. REIGN On a larger scale we see it in The TERROR, Reign of Terror", the fall of Sumpley the surrender of fee, the death of fincoln. EVENTS. Great national events are the results of popular impulses.

* About this time (1873) the American epidemic of crime & - homicide Suicide togethe! It is wonderful, how often (almost every day now) we not in our papers of some man killing another man, or, as often, a woman, and immediately taking his own after In Japan & China, hori-kari is frequent, without mender, - inleed in place of it sometimes. The Mestern modification of this is yet more fearful. I believe the newspapers to have much to do with such api--demics. of stradesing it consisted and med a the field the definition of a finish the

Let me choose the songs of a nation, and I care 27 not who makes to Caus. 29 A school master who squinted, soon found several of his boep to squint. In ourope in the 15th, 16th, 817th, centuries ERDEMICS. there were several epidemics of extravagances; such as the newing of a like cats which affected the inmates of a numery. The witchcraft in New England, & the Revivals may be so explained Suicide is sometimes epidemic. A sol-SUICIDE dier in a notel of Paris hung himself to his took host. Within a week, several others hung themselves to the same post. Homicide also, may be so, hence the ob-HOMICIDE jection to public executions. + The morbid effect of sympathy is even in hysterical females. A young woman had, an abdominal swelling as large as that produced by a pregnancy of & months. When etherized, the enlargement disappeared. The doctor who was attending her, sent her to Philadelphia The was watched by the nurse, who seeing her gsleep, found the lumor to desappear. In the hospital, a girl got in a

FORM'S OF TY.

Forms of Insanity.
Acute Mania
Chronic Mania
Monormania
Melancholia
Dementia.

NUMBER NOFLE. Number of Ensano
In Trance, about 1 in 800 -500
Nonvay, " ... 550
Rhineland 660
England & Wales 575
Massachusetts 300

MOST QUENT FRE CAUSES. Nosi Frequent Causes 1st. Intemperance 2nd. Reverse of Fortune 3rd. Domestic troubles 4th. Joss of Friends.

fit while a class was going through. The effect was that she got a fit, every time it passed. She was cured by being told that it she would be subjected to a new treatment, that a red hot iron would be run along her spine. Lecture XXX. In order to appreciate mental health we should know something of mental The nature of Insanity is hard to Diseases of the brain, affecting the mind may be sensorial, intellectual, or emotional. HALLUCINATION Hallucination, as in delirium tremens is sensoral. This may not constitute insanity If the person who is subject to it, is aware of it and has a will strong enough to resist, he isnot insane. DELUSIONS Intellectual delusion is seen in delusions Omotional, or moval insanity, may be separate from intellectual. Host insan-YTIMAZHI ity begins with the moral.

30 and of 30th Lecture, 1869.

The criterion of insanity is the loss of the control of the will. The insane are alienated They cannot interpret any things as others do. Forms of Insanety = Page 28. Inflecility is the same as dementia The causes of insanity are hereditary, CAUSES NITY. and exciting. Insanity is the most hereditary dis-HEREMARY. Case. Insanity of the nother is transmitted more than that of the father. The insanity of the nother generally goes, to the daughters; that of the father to the sons. There are fewer insane women than men. Hen are exposed to more excitement. In Europe the most insanity is between AGE. 30 & 40 years. In the Co. S. it is 20-30. Season has influence There are more SEASON. cases in summer, in June & July, and more in cool climates. The mode of life, country, or city, has an influence. In France, in the country, MODE LIFE.

32. 3332 OMITTED, 3 LINES From TOP, OPPOSITE PAGE Occupation makes adifference OCCUPATION. As to marriage or celibacy, the latter has MARRIAGE. most. In G. Britain, with twice as many manned as single, there are more insane single. The difference is greater in men. Savage & civilized: There are less in SANAGE the former state but they die sooner. NUMBER of insane - PAGE 28 The excess of insane in civilized nacivino. Tions is probably due to intemperance. En one hospital 12 per cent was pro-INTEMPERANCE duced directly by intemperance. Intrectly a man's intemperance may drive his wife mad, & the disposition may be transmitted to children. The causes of insanity are moral, mental, & physical: The first are most common, Ishe cially in females. Causes of insanity-Page 16.

32 33 there are 7.79 to 1000 people. In the city 7.79 in 1000. en England, country 1 in 820, city 1 in 1200. In one asylum, the order of frequency ORDER was, in males: alcohol, reverse of fortune, "Arquer domestic troubles, loss of friends." In females; loss of friends, reverse of fortune, abuse of alcohol. (Suran ha- slip) Suicide: - Since the beginning of this ceptury the number of cases in Thance has been 30,000. Out of 4000, most, in the country, were between 40 & 50; in Paris between 20 & 30. Sum under whilsten under 9, & 1 under 5. cording to a report of the Registral General, averages 1300 annually, and varies from 64 to 70 annually for each million of the population o vember the It is a must tion. Hanging is the death generally adopted by suicides, more than two-fifths of them SEASON FORT. adopting this mode. In France the annual hot weather sucides' month, rate is 110 per million of the population; in Belgium, 45; Italy, 30; and Spain 15. and on a fine day. The most common time is 80° clock A.M., next noon, When night, Tewer mountaineers commit encide, than lowlanders, & fewer women than men. The signs of insanity are of consequence. SLOW. A few fatal cases are sudden. The door keeper of the first-bongress died of joy. A young man called out in the

32. 3332 OMITTED, 3 LINES From TOP, OPPOSITE PAGE Occupation makes adifference OCCUPATION. As to, marriage or celibacy, the latter has MARRIAGE. most. In G. Britain, with twice as many manned as single, there are more insane single. The difference is greater in men. Savage & civilized: There are less in GAVAGA the former state but they die sooner. NUMBER of insane - PAGE 28 The excess of insane in civilized nations is probably due to intemperance. En one hospital 12 per cent was proand united under the old title. During these and united under the old title. During these and united under the old title. During these and united under the old title. During these under the under the under the punction of the Assimiboine River, about forty miles before the former falls into the under the under the under the under the bostile companies this colony has greatly prospered, and now numbers about 10,000 position may be soils. The company have done everythin in their power to prevent the growth of the Red River colony, and the settlement of and the settlem The causes of insanity are moral, mental, & physical: The first are most common, eshecially in females. Causes of insanity-Page 16. 17.0

32 33 there are 7.79 to 1000 people. In the city 7.79 in 1000. In one asylum, the order of frequency Report was, in males: alcohol, reverse of fortune, respect domestic troubles, loss of friends. In females; loss of friends, reverse of fortune, abuse of alcohol. (Lyon u- sur) Suicide: - Since the beginning of this century the number of cases in France has been 30,000. Out of 4000, most, in the country, were between 4,0 & 50; in Pais between 20 & 30. In were children under 9, & I under 5. It is a mistake to call shovember the suicides' month. The most are in hot weather and on a fine day. The most-common time is 80° clock A.M., next noon, When night, Fewer mountaineers commit suicide than COMMITIT. lowlanders, & fewer women than men. The signs of insanity are of con-SLOW, Sequence. A few fatal cases are sudden. The door keeper of the first-bongress died of joy. A young man called out in the

34 ... Le Marchen lever as a water for the factor - Juneile : June He of airming to the to the star after all when much as the arientary and toler to see the main To Carlow Line 2: The same of the Maria mulate to a december the pureless mention them at on a hit neal he in tanders, your account than a graby a last fine of the finet of courses the se

war, died of excitement Generally, it is more gradual. If attended to in time, It could be often prevented Damiens, assassin -The premonitions of igsanty are 1. pains in the head. Thousands have headache, often heredilary, or they may have neuralgian yet these are not signs of insanity. When not thus accounted for & when other sians are bresent. hain 2. Nervou of admissions in Trang the popular of naturally c 1 19 mond, man, 3014

Bleeple were Drunkens of 4919 men, n

Shis, is one were Drunkens of 4919 men, n es bring on 980 for domester tracks; of 5438 am ausening who 1569 same. most within the first citement. I sor 6 months, I for 25 to 35 years 2. appoplexy 6. Gloom; wow in a concer and 6. Great mutations in a short time, are

the fre place are latterly being introduced at Paris hop Legout & motet - 1 moune \$500 popula in France: Shots & Cretino being included in some statutes, desto the last in asylung of 100 admissions, 92 insone 7 courts & 1 cretion, Of 48992 armssing, 4620 Quented; 1248 ecclesistes & religions of sortes sortes apolleran tomorno 633 propress, tarally sculpt, part mess, 860. Carne proportions, over

35. war, died of excitement Generally, it is more gradual. If attended to in time, it could be often prevented Damiens, assassin -The premonitions of igsanty are 1. pains in the head. Thousands have PAIN headache, often heredilary, or they may have neuralgia, yet these are not signs of insanity. When not thus accounted for & when other signs are present, hain should be attended to 2. Nervous irretability. Some however have this without its being a sign. If anyone naturally calm becomes irritable, it is a bad sign. 3. Want of pour of attention. & Sleeplessness. This is a serious sign This is one of the modes in which moral causes bring on insanity. It is least threat ening when caused by mental effort. Mental exhiberation, unnatural excitement. Shis is often observed before approplexy. 5. Gloom & depression, without cause 1. Great mutations in a short time, are

Influences & Conditions most favorable to the preservation of Mental health: Sound bodily constitution; Balanced education, of all the faculties; Regular occupation, involving, or allowing, some daily exercise in the open air; Dufficioning of pegular, uninterrupted sleep; Moderation in diet, & in all excitements & indulgences; Neligions faith: or rather, faith, hope & charity, these three "I which the greatest is vivilying & clevating ay ann. Collecture of Parity & insanty: Johnson Couper Byron - J. Howard - Gredon F. W. of Prusse -

Mental chorea (winslaw) very serious signs. A gentleman about to be married, was exceedingly elated. In a week he had a fit of melancholy, & destroyed his life The reversal of ordinary temperament is a bad sign. Aversion to friends is a very common Emon be adapted to each case. Some need cathartics, some alteratives, &c. They must be free from carl. Travelling is not good, unless the mind is merely jaded with monolony, Seclusion is necessary, both to restore. them, & to prevent catastrophes. This step is generally taken toolate. Agentleman who was yelancholy for years out his throat. Had he been in an asylum, this would not have happened, In the present century, there has been great improvement in the treatment of insane. They used to be chained in cells. He

Halsi. I description of reff. forms of insanty Auto Manin - Varieties (Responsib.) - (Penosicity) Monomaria - Homicidal - Klepton - Pyroman , Methomana Milaucholia Therapenties of meanty. Indications, according & state. whether inflammatory, - hyperomic, - of viritability, Il Comice chorcie, or atrophic. Ingle . - depletion? cold to hard - purgation - quiet - exerc. Intalle Calmetteres open, hypray, comm, broth coloral chorer - moral treatment especially. Atrophic - Resp-torries - hypinic recupiration - be and of 31th Lecture 1 87.

39. The first improvement was in book retreat in lengland. About 20 years afterwards, in France, good breatment was begun. Now they have as little restraint as possible, Nothing should prevent a willingness to go there to an asylum. PATHOLOGY. Pathology of Insanity: - Inflammaof the brain is to be distinguished from insanity, yet they glide into each other. One idea of insanity is that there is at first too much blood in all the brain, & that it subsides except in one rail. PEGENERATOR There is degeneration of lissue, Latrophy.

Inssue The brains of insane are lighter than others. We cannot make out all the heculiarities. X The next subject is Etiology. or The causation of disease. The causes of disease are: 1. Hereditary, as cancer, consumption, gout, epilepsy, & insanity. 2. Dynamic. This is connected with

40 Hereditary, as gout, consumption, & standor externe externion, as over-exertion whiles videness: ven. excess. Mechanical; as transatic tetames, of apopling from position. Obstructive; as neglect of bowels, unliability Conditional; as heat-stroke, Ingestive; as trichiniasis - or on medications Contactive; as small-pox, syphilis_ Atmospheric; as yellow fever, cholori (in par). Temperaments TEMPERAMEN'S Languine. Nervous Lymphalic. Fibrous.

the functional activity. Exs. over work, sensual excess, Le. 3. Mechanical, wounds, lacing, position. H. Obstructive, uncleanliness, ill-ventillation, lowels &c. illation, towels. Le.

5. Conditional, extremes of heat-rold,
moisture & dryness, & electricity.

6. Engestive, poison, intemperance, abuse of medicine. Ve. 7. Contactive, syphilis, gonorrhow, smallpox re. Enough has been said of hereditare disease, which is inherited, almost always. The period of life in which it oc-curs is generally the same as in the hazent. Lome members of a family, or some generation may escape.

Sometimes the disease is inherited in a modified form modified form, There are certain influences which may

42. of inferior constitutional vigor. In large cities, the vices of communities cause the deterioration of many families - espenally through syphilis and intemperance. Mortality of children to by such causes much increased in a marked degree by affections of the nervous Explin of which convulsions are a very frequent mand-

43. affect whole races. The Esquimaux are affected by climate. The southern S. Americans, by food & climate. The Bushman by savagery, food, & climate. Even in civilized life there are sellan influences. Thus in malarial regions there is a certain type of men, Examples of depraised causes are CIVILY ZED fatigue, indolence, & sensual excess Examples of mechanical, wounds & injuries, position (stooping), pressing the chest, light-lacing. When a person is appoplectic, stooping may endanger life. Obstructive causes are very im fortant. The lungs may be obstructed by foul air Conditional causes are heat 200 gans are the nost affected by these but it exclus cold & wicissitudes causes a cold, coids. The physiology, of colds is as follows. Suppose a draft of cold air is on one

44. ment of the man the look of the state of the Live the amorto after to the

part. The arteries are constricted & the blood driven away. The action of the sweat glands is bessened, & the blood becomes loaded. There is a tendency to local congestion from the first cause, I of local deposit from the second. This theory is verified by fineumo-ME MONIA nia. During its height, chloride of sodium leaves the wrine. At the same time, the expectoration from the lungs contains it. As to electrical influences we do not know much. Ingestive causes are poison, er-NGESTIVE rors of diet, &c. They may do harm from quantity or from quality. A deficiency of vegetable food causes scurvy. An excess of animal food causes gout, each temperament have a modifying influence. There are differences at different

46. sighted the set to be and according to End of 31 M Lestone, 1869

47. INFANCY. times of life. In infancy, the nutritions powers, & capillary circulation are most active. The ganglionic part of the nervous system predom ingles. The surface is delicate. The process of making animal heat is feeble. Some organs, aslungs, are not developed. The diseases of this period are cutaneous diseases, disorder of digestion, convulsions, glandular derangement, pseudo-membranous affections, preumonia at this time because they occur but once in a lifetime, and children are very susceptible to all morbid agencies. ADOUGENE In adolescence, the gelerial sixlem is well developed. The emotions are strong. In the female, menstrualion occurs. The diseases of this time are ac-tive, congestions, inflammations and hemorrhages.

48. N guitefield for the arterial all

And the superior Elder winded temperate. June Man man from here Sorman Junous Sumplater. Ar Hawkin-69-70- 4 See ved P. P. 9.4 Combination of temperaments most frequent; as Sanguine nerious - fibro-lymphatic - fibro-sanguine, le. her and all the section of the second

53 is characterized by endurance. There is no association with bilious disorder. There is a full development of bone and muscle, without activity Examples: Alexander the Great, Easar, Richelieu, Mohammed, Peter the Great, washington, Napoleon I & III. Is Srant, Earfield. Special Etiology. CHOLERA Chidemic cholera has already been treated Mafarial disorders are very important in this country. The best account of these is found in Drake's Diseases of the Great American Valley." Malarial fevers are divided into in-The first is found in all continents in yarm climates, in certain places. They are always local & never exist in thickely-built cities. A temperature of 60° is necessary. They are most inolept in tropical & subtropical climates In the cast they then prevail over rocks. Surface water favors them,

526 The wife we have been the story of the he son was Heronder the week to and Show I Make a to de world the said to all and continue now there commits a the dark accused as

55. The sea is comparatively free, un-less in the vicinity of marshes, They follow the clearing of words. Organic matter has been detected, ORGANIC MATTER. but no gases.) The first culture of soil causes them. A period of incubation, about 3 weeks, often follows exposure. There is a difference in the health of seasons which without any known physical cause. The boundaries between an unwalth & a healthy place are often narrow, a grove of trees, a large house, xe. often being sufficient. Malaral in thicklybuilt alies, Every case may be enplained by the person having gone into the country. somberen our city, a now of houses at 18 the Columbia Av. had several case. There was an open lot with a hond on the opposite side. This pond was.

56. 142 1 32 Decture x

57. drained & no more cases occured. The most remittent fever is in south. Congestive fever is always South. FACTORIES. Large factories diminish malarial feiers Cape May is sometimes visited Souther of the soil produces them CULTURE It was once thought that sulphuretted hydrogen was the cause; but it often exists where they do not, & not, where they There are several hypotheses of cause, 1. Electrical, of Jas Murray. & Live & Mila THE " 2. Meteoric, or Conditional, (oldham) CAUSE 3. Malarial gasex The meteorie theory is not good le. MALARIAL VENES. The cause is a material poison, Impical regions furnish abundant vegetation. Gold ends the attacks The latence of the affection, & its endemie character show that the cause is a getable organic growth. X

58. To Escape Sall Siver, in a HOW CAPE TO E FALL FEVER, Malarious Pocality 1. Avoid the evening & night air. 2. Never go over tainted ground with an empty stomach. 3. Have a fire in the house, always in damp weather. 4. When much exposed take a few grains of quinine daily. Gellow Hever. YELL FEVER. 1. So met with only in warm weather, I near the sea. 2. Is rarely diffused over continuously over very wide region. 3. Es not contagious. 4. Is rarely conveyed by familes. 5. May be carried in foul ships. 6. May be prevented by Sanitary Police. Salisbury thought that the cauxe of malarial fevers was was a minute vegelation. Liventy years ago, Dr. Mitchell thought that malarial fevers depended on fungous plants. Many facts gave plausibility to it. He showed the coincidence between the plants All the description of many observed the first winds in skindings. At the description of the vegetable character of these organisms. Some say that they do not produce the disease. These organisms are present in the most common, Tours anywher in deer dying and Buly. In 1863, the blood of a sheet which had died of spheric apoplexy, was found to contain them. They are not destroyed by suchhuric acid. Skey are absent in healthy sheen. Permentation is produced by regelation. Some are acctous, lactic, 3

60.

butyrio In India a fungous disease of the foot is fatal unless the foot be ampu-HOSPITALENO HOSPITAL gangrene may be produced in this way On examining the expectoration of intermittent fever, many forms were ound but only one was constant. It was an alfoid plant. Fieces of glass were suspended over malarjous ground. These organisms got on the upper side. Palmella. Fresh earth was taken from a prairie bog. The same forms were found. They are more or less abundant at different heights. They are higher at night. DRY STRAW, Dry straw is good to putover a place infected with ague. Dr. Salisbury tried to give the disease He placed some earth with these forms, under a window. Those who sleft in the room got the disease. These observations require confirmalion by some dody else.

62. forth is fall in the the last the arter Hood to to garage we and the fire ducad LATE DESCRIPTION OF THE PARTY O

DR. HOLDEN. There was intermittent fever, of came from an open store room. In this room there was much milder, SAUSBURY, Dr. Salisbury concluded that caustic time should be spread on miasmatic ground. Some years ago the country seats SCHONKIU on the Schuylkill were uninhabitable in fall on account of ague, It is quite different-now The disturbance of the water prevents it. ROME near Prome was caused by clearing a forest. a forest. The rice swamps of the South, are terrible malarious The Great Dismal Swamp is not malarious, on account of the cypress Prevention: - We should keek within doors from before sunset till after suna rise. It Passing over malarial places is dangerous. Never pass such a place,

with an empty stomach. The lungs & skin more probably chan the stomach absorb the hoison, but a want of nutrilion is unfavorable. Me should light a fire to one our nooms. Hammond says that mosquito net will keep out malaria. Quinine is a good preventive, Livingstone doubted its effects. The amount which he used was small. Yess than 4 grs. arenot good Inclailly 6 gr. This subject is open for investigation. KELLOW Gellow Fever comes next: et is a subject of controversy Against its being contagious are, A commission of the French Academy, Humboldt, Jondon Board of Health, Sanitary Commission of N. Orleans, Dr. Drake of Chio, Lashoche of this city, Barton & N.O. and, Sec. B. Wood. For contagion are, Monette, African of Edinburgh Mc Williams, & Brof. Dison, The conclusions are 1. The cause is a specific material, perhaps a vegeale organism.

66 of lagress on Acomorablics of the Market Market Comment of the State of the St the other thankers Illy and worth House

2. The poison may be propagated by 3. Seldom north of 48°N. latitude, and not much below the equator: It is always near the Atlantic Ocean, & WHERA EX 1575. never goes to the Pacific It visits W. Africa, M. South America, W. Indies, Charleston, Ris Jeneiro, N. Orleans, Mobile, Savannah, Ribralter, Natchez, Vicksburg, N. York, Boston, Philadelphia, Marseilles, Barcelona, Leghorn, Dicily, Carthagena) Of goes in the train of the Gulf Stream.

Bontinued warm weather, high dew

PRODUCE 17. point, & as organic deares are necessary

low its laistoner for its laistence. et is rarely much diffused.

The hoison can never produced in the body of the sick. Ships transport it. A vessel at the N. y. quarantine gave yellow fever to other ships and even to the shore. It is generated by an accumulation of

68. Causation of many, indeed most important mouse has been already incidentally alluded to in the Bevious Cectures of the course. We my therfore, be more brief now concerning them.

foul air. If this is absent, no extension Cleansing & furnigating will define a ship of the hower to transport it. It should never exist because it is preventable. B. Butler had very little in N. Orleans. The removal of the people of an infected district puts an end to the endemic. Typhus: - Sephus fever is not confined TYPHUS. to one place or season, fail, camp, ship & typhus fever are the same (Chlesis Carowd poisoning) is its cause. OCHLESIS. After that it becomes contagious. One person infected, has the poisoning power of a crowd, The weight of English authority is against this view Parkes & Bilken lean to the Selief that a special tiphus poison is necessary. An Egyptian vessel bound for Liverpool with 475 Arabs, got typhus. It originates DENOOD. Seo. B. Wood believe in crowd poison

70 Causes of Typhoid Fever. TYPHOID SEVER 1. Constitutional Predisposition. 2. Nervous depression 3. Opidemie influence. 4. Joeal insalubrity 1. Intense Heat. CHOLERA IVM. 2. City Atmosphere. 3. Infantile susceptibility. Causes of Erysipelas. ERYSIPELAS. 1. A peculiarity of the Air 2. A morbid tendency in the patient. 3. Mostly, a lesion of the skin. Causes of Puerperal Fever. 1. Jainted Atmosphere. PUERPERALVER. 2. Reterine lesion. 3. Uterine vascular absorbtion.

Lecture XXXIII. There is much obscurity about typhoid fever. It is rare, over 40 and under 10 yrs. It seldom occurs twice EYPHOLD FEVER. in a lifetime Agencies which cause nervous depression promote it, sometimes, It has been apparently contagious. CONTAGION. But in the cases where it was Roy it was probably confounded with lighter fliver or perhaps blended with it - hairdner. In 4 cases of convalescence from typhoid fever, typhus followed. This shows the distinction between their. Mercheson of England says that typhoid fever is caused by foul air, There are many objections to this. Doul drinking water carries et. Dr. Flint & Poston says that 28 out of #3. people of a village had lighting fever Only 3 families escaped. In & these lived far apart from the rest, and the third had quarrelled with the imprecher. All but these three used the same water

12 The state of the s tely worth Land of telephone Spelmorth Incl. drinking unter commend hard for apart from the real and the to back their while weed the same with all we

Drs. Jackson, Smith of Conn, Routh, Budd & Simon, & Natson, believe Dr. Parkes says he knows of bad drainage without typhoid fever & vice versa. It is difficult to believe in its contagiourness. It is met everywhere, in all climates, & every leason, Hised cases extrain apparent Contagion. Gr. Mood ears that in a constitution predisposed to & tephoid, anxiety, foul water, typhus poison, Le will bring it on. It is safe to admit the promotive influence of water and air, Honce disinfection is good. Lypho-malarial fever is a mingling TYPHO RIAL MALARIER. of two types of disease. There are 4 elements of causation, 1st Ordinary cause of lyphus 2nd. Autumnal Malana 3rd. Cause of Typhoid All. Scorbules cause. The light of the fever varies according to

74 man to Market in this thorne 22 pithent leptor bere i nee von of be observed to a compact of the property of the apalmo homes from the many designed and a property prediction the text left har of acres life Love to water topping for win read it in this word of and all the con of teen legent its divine in there is

75 the combination. This mixture causes complicated study. The different elements cannot be over looked! Quinjne is good La Roche wrote a book on the velation of preimonia & malarial fever. There are two meanings to figphoid preumonia. 1st. eschaustion with preumopia, 2nd. epidemie or endence In the south there is a malarial influence. This preumonia is called bilious preumonia Spotted fever is not well benown. Even the name is not settled some prefer to call it cerebro-spinal menenghitis. Cerebro-spend fever hest of all. It is usually sudden, with headache, delirium, eruption in most cases, stupor, death in 6 hrs. Boudin mentionsit in 1568. Stoc. aured in Geneva in 1805, Staly, 1841, Ireland, 1847, Phila, in 1813, In 1863, there were, so death in Philada, Mostwere at Managunk, Fall, &

76 Co We diller death in this

cause a chemical action

PLAGIJE

If is not contagious. Two facts prove this. In It is a disease of a season? Sanitary police kills it out. After drain ing a swamp in Gairs, plague disappeared. DC. Caldwell, in thile, 25 years aggromore. Cholera Infantum is caused by an CHOLERY AUT intense summer heat, the air of a large city, & infantile susceptibility. We can trace the no. of cases by the thermometer No physician should

encourage keeping infants in thecity

in Summer. Removing to the country

is curative.

Plague is a subject of controversy

18.

Dysentery may be inflammatory or epidemic. The ordinary kind may occur at any place or lime. It is common in high regions wear malarial places. Some say that malases causes it. The drinking water of limestone regions is said to eauxe it. Orysipelasis endemic un large surgical hospitals. Reculiarity of almosphere morbid tendency, and In lesign of the skin are necessary It is caused by effete matter thrown of from an inflammation. Puerperal fever has the same kind PUFEVERAL of eauxe. In the Tenna. Hos. the attendant of the surgical ward does not attend the obstetric ward, In ergsifelas the besion is on the skin In puerperal fever it wonthe uterus. It is different from peritonities Some say it is peritonities; some, byemia; & others that it is a true fever. Puerperal fever is transmissible.

80. 100 deaths in a single will from Diphthoren in Jan, 1875 in New York city,

A certain physician of this city gave it to every woman whom he The few facts do not prove anything. They are merely enough to put us on our quard. Washing the hands with chloride of soda, is good. Some will not attend both puerperal fever & ergsipelas: right. in 1856. It is a pseudo-membranous affection It cause is epidemic & limited. It is a domestic pestilence, falling heaviest on the poor. Excessive changes of temperature cause it. Sometimes it is hard to tell the cause. INOCULATION. Attempts have been made at inoculation, but they have failed. It Cholera nest: see my book on it.

82, PUBLIC Public Hygiens 1. External, Exclusive; Quarantine: (Personal never) Available only against personally contagious diseases. Ship Inspection and Dirification are important-against Gellow Lever, Cholera, & Sophus. 2. Internal, Sanitary Police. 1. Agant ording diseases Start 11 Streets, Markets, Whaves De Construction of Buildings. 2. Against contaguiss, Drainage & Severage & entime Xapideme Conservancy. maland for Supply of Water & Food Visisances, Avocations. Public Vaccination Millan hom Cholan , Medical Attendance of the Poor. H Handy See net!

Lecture XXXIV. The diseases which have just been considered are symotic or enthetic ZIMIOTIC DISEASES. The term zymotic (ferment) is a good one. Liebig suggested an analogy to fermentation to the production of a chemical change. There is an analogy to combustion and decay. All forces are capable of propagation. These analogies are important. Pollin of Milan introduced the use of sulphites to arresting zimolic change. Scarlet fever, mumps, yellow fever, typhus & typhoid fevers, occur but once in a lifetime. Dr. Simon of Jondon asks why do they occur once only? He says there may be in the system, a material which isnites with the virus, the disease being thus caused. He compares this to the satyration of a chemical body. of vinegar be poured or carbonate of ammonia, it will effervese until saluration is complete.

84. The way or I say to the the the transfer to th 4 15 4 100 500 and in market to the more both

85. FOR CHILBLAINS. — A writer in the Apotheker Zeitung recommends an aqueous solution of iodine and tannin as a remedy for chilblains. He says that the application has been tried with good re-Just RO, on sults when properly applied. About an ounce of VIRUS ACTION tannin is dissolved in half a pint of water; seventyfour grains of iodine are dissolved in an ounce and virus Combinee fourths of spirits of wine; the two solutions rial) are then mixed, and enough water is added to make disit will would make then mixed, and enough water is added to make up the whole to two and a half pints. The remedy is applied once daily, the best time being before last. The mixture is gently warmed over a very slow fire; the affected part (as the hand) is s sat-As other dipped in it while still cold, and held there until the liquid, on being stirred, feels uncomfortably hot. The vessel is then removed from the fire, and the hand well Mation, D, vessel is then removed that gloves. The vessel used must be of earthenware or porcelain, not of metal. 2 the Combrue We Care should be taken not to use too great a quantity of iodine, especially when abrasions are present. Ifficace of Four or five applications are usually sufficient. Phthisis. Inheritance generally -not PHTHISIS often is the cause. Bad air, not enough food, lentary confinement, want, of light, & debritating CAUSES . excesses, act in producing it. In a prison at Vienna, in 13 yrs, og deaths in coo were from phthisis. In a better ventilated prison & in coo were of phthisis. Limitar facts are seen in the 6. Indies In the British army & navy the proportion is very large. In some ships it seems to be contagious. Monkeys in the Toological Gardens Monkeys generally die of it. Cows are subject to it

cultural laborers, and porters), 11.5 per 1000; coopers, 8.5; machinists (including blacksmiths and metal workers), 8.2; lawyers, 7.8; seamen and watermen, 7.7; boot and shoe makers, 7.7; barbers, 7.2: carmen (including coachmen and teamsters), 7.1; printers, 7.0; painters, including varnishers, 6.9; masons and stone cutters, 6.8; carpenters (including cabinet makers, upholsterers, and joiners), 6.6; dressmakers (including milliners, mantuamakers, tailoresses, and seamstresses), 6.4; teachers (female), 6.0; tailors, 5.7; bakers, 5.5; bookbinders, 5.3; cigar makers (including tobacco workers), 5.2; domestic servants, 5.1; butchers, 4.6; clerks (including salesmen and accountants in stores, banking, brokerage, insurance, and manufacturing establishments, and civil employés of government), 4.6; hatters, 3.8; physicians and surgeons, 3.8; pedlers (including hucksters and commercial travellers), 3.1; merchants (including traders and dealers), 3.1; stablemen, 3.0; teachers (male), 2.2. N.M. (Healt Rep. 1 87 2

notating h

85. Just so, he says, when small-pox virus combines with all this material it will no longer come out as a disease. This is very plausible. As other acids will produce this satwration, so, he early, cow-pod virus will combine with this material. Hence the efficaces of vaccination. Phthisis. Inheritance generally but not PHTHISIS often is the cause. Bad air, not enough food, sedentary CAUSES . confinement, want, of light, & debilitating excesses, act in producing it. En aprison at Vienna, in 13 yrs, og deaths in coo were from phthisis. In a better ventilated prison & in loo were of phthisis. Limitar facts are seen in the 6. Indies In the British army & navy the proportion is very large. In some ships it seems to be contagious. Monkeys in the Toological Gardens Monkers generally die of it. Cows are kulject

moculation of phthisis, It seems at last that inecolation with anything that causes son ichoromie suppunation may, in Some aremals, generate a tuberculoid affection, - with deposits, in the lungs & elsewhere, not disting. whatle from some of the deposits of tuberculous cases. Now much of them to really identical with tubercle of how for the pathogenetic process is Different from that of phthisis, one questions net open.

the size of themen in fresholder & I So in heland, 1868 - Knearly to other years there I in Scotland. The unsettlement owing to an alarm about vaccinal syphilis, caused it to be comparatively neglected. There occum in the first half of the year, 700.8 thousand cases - with a mortality of In bor7 cases.

The diseases against which it has been employed, are plague, small-pox, FR ALWARD typhus & yellow fevers, cholera, scarlet fever, & neadles. It always has failed Even at Malta where the system was so rigorous, it failed to keep out small-pox. It is available only in personally contagious diseases. Small pour is contagious. If it were possible to keep it from our shores, we, of course, would not have it; but we cannot prevent its coming Besides, vaccination is surer preventive En Providence, P.J. the disease has been banished by public vaccination? Typhus fever is contagious. It comes in ships. Here again there is something better than quarantine viz. ventilation& cleanliness. Gellow fever & cholera are preventable at The only true quarantine is dist-quarantine. Ships should be detained for inspection. There should be a place for inspection,

90 alle the service to the face of the ser the cold has more when we that you was his TWO STATIONS removed from the city. There should be a near & a remote station. If a vessel is obviously in bad condition it should be stopped at the 1st. Station; if not, it should be allowed to go to the 2nd. where if there is the slightest suspicion, it should be detained. This would prevent accumulation of vessels, which would cause disease,

In N. V. the great-defect is the want of

land accommodations.

DETENTION PERSONS.

of persons, does no good, but harm It should be abolished.

When a vessel arrives with cholera, the crew, &passengers should be scattered over

the country. This has been done, with

Good effect at Ballimore, the city, non-hully 4. f. cases. Bathing, disinfection, changing posi-

tion of merchandise, steam, submerging, destruction of bad food, ejection of bilge

water be should be attended to in such

cases.

SANITARY POLICE.

MEASURES TO BE TAKEN.

> We now pass to SANITARY POLICE. In all cities Boards of Health are established

92 covered forcethe of a discount of month The second from the account to bear of later of me who will in you leaved, the his course

DRAINAGE

95. It is not identical with severage which includes removal from houses. The facilities for drainage are of importance in choosing the site of a city what to do with sewage and conservancy is not settled. Victor Hugo, treats ably of the sewers of Paris. They are now, a city beneath a city. But, much waste, yet. The two modes of drainage are emptying into nivers, takes reas, Se, and pour ing over fields for irrigation. The first is the more common . The other Edinburgh it is very successful. The refuse of the city is livery day carried out in wagons and sold to the farmer This irrigation must be periodical. It would not do to be flooding fields every day. There must be reservoirs to keep it in. STREET There are two methods of disposing of street dist. To sweep it into the DIRY.

96 & Stramm, a German epidemiologist, observes that good privies are for higher lights of civilization than grand places and museums of art."

sewers, or to cart it away. The latter is much the better way. Either will do, if properly carried out. of conservancy: by deep wells, by con-necting water-closets with sewers, and by carrying it away to fertilize fields. The wells will do, only when they are WELLS. so deep that they meet running water or very permeable soil. That they are not so in Philadelphia, the horrible night-carts attest. The air & water are lainted were by them, when long neglected especially. Connection with sewers is good if the servers are managed rightly. There must be a good descent and plenty of water. There must also be a value to prevent the return offoul gases; and no shorp angles or corners to allow of detention. The sewers themselves should have traps, & should be capable of being entered and cleaned. USING FOR FOR PRILIZING The least objection is to be urged against the utilizing plan. Besides

its benefit, it is economical. In the fondon sewers the velocity of flow is 1/2 miles per hour. Before 1839 KONDON SEWERS. they emplied into the Thames at low lide. It high tide the water was carried up past the city, injuring health. Now they empty at high lide & firther down the niver. When the improvements are completed the total cost will be \$20,500,000. vance alpharas for market the Government, so that if a collision the Government, so that if a collision d they would be put clearly and manifest the wrong.

Sanks replied substantially in the affirmance of the collision of the control o receipted animals. SEWERS. sheet & liquids are transac made into firm, w houds to continue the payment of his fertelizer. advanc mand I In I Schenck, of Ohio, took strong ground Mr. Harvey, whom he spoke of as one continu it is carried BEBLINA. bread-and-butter brigade. droopir a desk and had read the letter in controoutin Raymond, of New York, repeated that was nothing in it that deserved each was nothing in it that deserved each applied to it by Mr. neary rown in font of the distance of the parties of the state A very good way is to mix it with dry earth. A Prussian commission Rent to PRUSSIANNIC Orgland, reported unfavorably of the water-drainage sixtem. Theres

THE LONDON SEWERS.—The Corporation of London is engaged in the construction of an extensive system of sewers, which, when completed, will cost \$21,000,000 in gold. Of these sewers, eighty two miles have already been built. The drainage to be carried off by this extensive system is derived from an area of about 117 square miles, and a population of 2,800,000. The capacity of these sewers is estimated at 14,000,000 cubic feet. In their construction, as far as progressed, 3,500,000 cubic yards of earth have been excavated, and \$50,000 cubic yards of concrete and 318,000,000 bricks have been used. "This grand system of sewerage," says the London Lancet, "has been constructed under buildings, and over and under canals, rivers and roadways, from twenty-five feet above to seventy-five below the surface, without any important casualties or interference with the public convenience or traffic. The arrangements of the metropolis would appear to be more wonderful and successful below the surface than above."

its benefit, it is economical. In the fondon sewers the velocity of flow is 1/2 miles per hour. Before 1839 KONDON SEWERS. they emplied into the Thames at low tide. At high tide the water was carried up past the city, injuring health. Now they empty at high lide & further down the river. When the improvements are completed the total cost will be \$20,500,000. In Paris there are Bearings for market DARIS SEWERS. offal, peal matter, & dead animals. In the privies, the solids liquids are separated, & the former made into poydrette, an excellent fertilizer. In Berlin & China, it is carried BEBLINA. out in pails every day. In Switzerland, it is thrown in font of the doors! A very good way is to mix it with dry earth. A Prussian Commission sent to Orgland, reported unfavorably of the water-drainage sixtem. There's

100 Goveto of 50 industrials enough to feetilize I dess. Population Philaday - 15000 to 16000 acres. Drainage (from rain) hest by permeable.

Severs - Senare (artificial) by impermeable. underground seners. The same of the sa

101 reported "wasteful". Tubig estimated the value of the Yordon servage at 300 4 cts pr. ton. John a dense population the value is 1.68 JALUE SEWAGE per head per annum. If sewage be used for irrigation, it must be on crops which can be benefitted son soil which will absorb the bad material. Dr. Gilbert tried four fields and found that very little ammonia & organic matter escaped absorption Agentleman of this city had the urinals emplied on his garden every morning. Grass is thomost benefited There are two arguments used a-gainst the fertilizing plan. Let. A large field thus irrigated would be a missance near a large city This is not so. 2nd. Troublesome paraxilie diseases would be thus increased. This does not seem likely. There is no enduce of it.

102.

NulsANGES. Nuisances: - All those establishments having organic matter in decay, as part of their refuse, are liable to be, & often are, nuisances. Of this description are slaughter Muss houses, glue factories, candle & soap facwhere hogs are kept, distilleries, due works, & burying-grounds in cities. Water Supply & Food Inspection: It is important that the sale of food should be supervised by the authorities Bad food is often sold on a large scale. Such things require stringent provisions of police. A vocations: These sometimes require the intervention of authority especially as regards the tyranical treatment of children. In the English factories children are in a worse condition treated worse than the slaves in the South. In France no child can be Laws. forced to work befor he is syrs old.

103

104. the lage to gut work on account of asthette disability was 40 years. now, 45. + Trinders - (Su Dukson) unvilled to have mortality of their vocation lessent became wages unto be lessed also

STOT MANTE Unhealthy Employments - (Page 94.) Those working in lead may get either lead colie, or lead palsy. In the former LEAD The palsy affects the extensor muscles of the wrist, first. The preventives are washing the hands well before meals, avoiding the fumes of lead as much as possible, and if much exposed taking delute 503. Coloring wall paper with arsenie, ARSENIC or even sleeping in a room so covered injures health. Some children play ing with a bayly house, so covered were affected by the assenic one lody, indy wholly la killed. Dr. Taylor says that opthalmia & newous diseases are caused by it so golored. Silvens minos with mercury. PHOSPHORUS. In making becifer-matches, there especially of the lower jaw. In needle-grinding toke-gonding spinning, working in hair, brilles, & et fine

106. on account I an asthratic disability was, a few years fine, 40 years. Now, by some improvements, whas been brought up to 45. The state of the s The frageties competed by principle complete The transfer of the state of th and the same of th

particles get into the air passages. In glass-blowing, the intense heat &, the interference with the normal act ion of the lungs, both contribute to short en life. The life Of 1000 cotton-spinners, 18 diedevery year; 41 coal men; 54 wool, han de. The average age at death, I flint matters is 19 years. It manufacture of aniline causes intense bronchilis & illeers on the logs. In vulcanizing indige subble injury is produced by the sulphuretted carbon employed. Head ache, vertigo, excitement of the nervous system, which may lead to insanily or imbecility, are all effects of this. A glass screen with two holes for the arms should be used. by the absence of light & pure air* MINES. All sedentary employments are EMPROVINENTS unhealthy-

the Beyond a doubt the mortality among the Marallin is less than were the thorteamy among the Per Cent, 5 per cent, 18 the hop protected in wase of cent, 2 ale age 868 Vaccination and vaccination—in the Gording to statistics evaccination are during the German amy, which numbered by the German amy, which numbered by the German authoritate disease, the French amy lost only 286 men by the fearly 26,000 by INFICENCE OF VACOTATION.—In the German army,

A FACTORY DISEASE —A curious form of disease has appeared in some of the flax mills at Belfast. It is thus described by a mills at Belfast. It is thus described by a physician: 'In Belfast a very painful malady is prevalent amongst the mill-workers, more so, I think, than in many other places, I mean 'onychia maligna.' The subjects of it believe that it is mainly caused by having Minor Evils: - Inhal TUPPENTINE you ask, 'How closely will the experience of the to stand, whilst at work, in the water which drops from the spinning frames. They American physician coincide with this statement?' usually get a knock upon one of their toes, which inflames the nail drops off, and an exquisitely painful ulceration, with reproduction of a deformed nail follows: PHOTOGR While the surgeon of the National Military Asylum, Eastern Branch, 1868-70, there were under my duction of a deformed nail, follows. They are thrown out of work, and it is only by a care many cases of consumption, mostly from two severe operation and protracted treatment to five years' standing. Night-sweat was a very in hospital that they are finally cured. Last year, in the general hospital, out of thirteen hundred cases, we had thirty-eight common symptom, and for its relief I learned to rely entirely on the oxide of zinc, three grains in cases of onychia; several, nowever, were relapses." This painful disease, it is said, occurs much more frequently in Ireland pill at night, combined with a little hyoscyamus. WATCH MAKIN It seemed as nearly entitled to the name of specific as any medicine in the Pharmacopæia." than in England, because in the Irish flaxmills the men and girls work barefoot all day, "with the water from the flyers drop-SELECT FORMULÆ. ping upon them." VACCIN COMPOUND ARSENICAL PAPER. - The following cinated, & oby accinated is transcribed from the Receipt Book of the Philadelphia Hospital: -1.10 vaccinated 8.42 of . . grs. xcvj. Belladonna leaves . Hyoscyamus " Stramonium " grs. lxxx. n Medical Academy. Boiling water revaccination. It Potass. arsenit. . . . grs. cccxx. Take thick bibulous paper; soak it in this solution, and allow to dry. When set on fire and the flame extinguished, this paper burns slowly without flame, and emits a dense smoke which may be inhaled for the relief of asthma, often with very marked benefit. It is also useful in chronic bronnot be revaccinated FOR EXCESSIVE PERSPIRATION OF HANDS OR lear; again before, 25th FEET. - A German pharmaceutical journal recommends the following: -Carbolic acid 4 parts. Burnt alum Gold is slightly oversold, and loans are mad at 1-32.1-16 per day. The payment of the May Conpons has a tendency to weaken the premium. At 10 A. M. the quotation was 135; 1 A. M., 135%; 1 P. M., 135%; 2 P. M. 135%; 3 P. M., 135%; 4 P. M., 135%; 5%; P. M. 200 parts. French chalk 50 parts. hin . 2 parts. Oil of lemon . Make a fine powder, to be applied to the hands and feet, or to be sprinkled inside of the gloves or As usual on steamer day, there were few on operations in foreign exchange; quotation remain as sent yesterday. The Scotia takes out \$100,000 in speciet or bla freight. The stock market at the earlier Boards was buoyant and active. Prices generally wer better, but after the regular Board, under sale to realiz, the leading descriptions yielded rection. The market as yet has but feebi "outside" support. Governments are in stead demand for investment, particularly the new demand for investment, particularly the new desaud 7-30s. There being no quotations from London to-day, the business on foreign a count is limited.

MULTUM IN PARVO. — It would be difficult to condense medical information of great value into smaller compass than in the following extract from the Boston Medical and Surgical Journal:—

The following propositions are offered as matters of belief, and some of them as matters of record:

1st. Without vaccination, one death in ten from all causes would be the result of small-pox.

2d. Without vaccination, nineteen out of twenty would have small-pox.

3d. Without vaccination, sixty-seven per cent. of the cases of small-pox would be fatal.

4th. With vaccination, not two per cent. of the inhabitants will take small-pox.

5th. With vaccination, the percentage of deaths from small-pox is only about eight of the two per cent. who will take it.

6th. A larger percentage of those who have had small-pox will have the secondary disease than of those who have been vaccinated. That is to say, vaccinia is a better prevention of varioloid than small-pox is.

7th. Humanized virus is more likely to take than the original virus from the cow.

8th. Humanized virus, whether it takes or not, does not produce such severe constitutional symptoms as primary cow virus does.

9th. It is not proved that either humanized virus or primary cow virus is the better in its protective effects.

10th. There are certain individuals who do not seem susceptible of variola.

11th. There are certain individuals who do not seem susceptible of vaccination.

12th. The taking of small-pox after vaccination is no proof that a second vaccination would have succeeded.

13th. A successful re-vaccination is no proof that the individual re-vaccinated would have taken small-pox-

Poisonous THREADS.-A French journal of hygiene states that a number of seamstresses have suffered from violent colic, in consequence of putting into their mouths the silk they use in sewing. This disease is atstributed to the practice of mixing the silk with a preparation of lead (the sniphate) so as to increase its weight. A chemical analysais of many different samples of sewing silk ins been made by Mr. Jones, of the Chemical Laboratory, Leadenball street, London, which resulted, in almost every case, in the detection of large quantities of acetate or sugar of lead. This admixture is even more dangerous than that of the sulphate, on account of the greater degree of solubility of the sugar of lead in the fluids of the stomach.

moe that between six and seven hundred dings have been put up, including a ther of elegant brick and granite stores. It noticing this fact the Philadelphia letin takes occasion to sing the praises (ankee energy and pluck, and instances anta as another place that is indebted to m for its present Phoenix-like proceed-But for Yankee energy and Dutch and h pluck Atlanta never would have had

ashes to rise from."

PECULIAR SUIT.—At the present term to Circuit Court for Pittsvania county, inia, a suit has been commenced ast the town of Danville, for damages on ant of liquors destroyed by order of the or, about the time of the surrender of sarmy. The liquor was destroyed as a autionary measure to prevent straggling ters' who were passing through in great thers, from drinking to intoxication, in the event it was thought the town would a danger of mob violence.

brand

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RIAL.—The trial of Capt. William Grant burning the ship Young Mechanic while or his command, on her voyage from



TURPENTINE Minor Eivis: - Inhalation of turpentine, causes dizziness in some.

In photographing, the eyanide of polassium & the bichloride of mercury ary injurious. In watchmaking, copper causes nervous tremors & chills. Brass formers ague also Vaccination: - In a Yondon hospital, .35 of the unvaccinated, & 06 4 raccinated died. In Berlin. 10 vaccinated 8.42 q the unraccinated ried. In the Belgian Medical Academy. of 2841 subjects of revaccination, it was sugcessful in proportion to the length of time. A person need not be revaccinated before his 45th year; again before 25th, Vaccination is a duty which should be enforced. There are different plans. In France, 3 frances are given to everybody who brings a child to be vacginated. (1859) In this city, officers collect the cases

Vital Statistics 1377 37 Population of the World, 12 88 millions. Most populous regions: Egypt, China, England Marriages in Europe, 1 to 121 & inhabitants " " W. S. 1 to 102 " " Births to each marriage - 4 Births to population, about 1 to 30 sexes- 9362 females born, to 10000 males. 9190 " die " " " Deaths to population, W.S. 1 to 45 Inevitable mortality, 17 in 1000 annually Average age at death, the world over, 33 yrs. Longest lived - Judges Paupers Gentlemen Shortest- lived - Clerks Paborers Brakesmen) Thirt-makers, Females, longest lived -Dress makers Leachers Housekeepers Day Workers. Shoe-benders

of children who have not been vaccinated. It should be compulsory.

The subject of Yesture XXXVI.

VITAL Vital statistics is a very large subject. STATISTICS. It is also a difficult one, It is the most infantile department of hygiene. Three questions present themselves. What are vital statistics; what are they for; and, how are they to be got. Vital statistics are estimates of popu-WHAT lation, sex, age, births, sex of births, marriages, deaths, sex of deaths, sickness, STATISTICS. causes of sickness, he. The system of life insurance depends on vital statistics. So does the thing of diseases How can we obtain them Individe ual efforts alone will not suffice. Medical men have sworigh to dourthout it. It must be done by municipal authority, by compulsory means. Authority has been very slow in, doing this on this state, iteras difficult to get a law fassed. Hardly anjukere, are statistics

112. 1812 N.B. I will not question on the figures & of this Celure on Netal Statistics - unless 16 2 or those items designated as of special

Contractant, 113. The influence and usefulness of a medical ma do not depend altogether upon what he ma fifty show of materia medica, or physiology, or su know of materia medica, or physiology, or su her that in that time, the average length of life has been doubled. All the figures which are given, are merely approximations. I select a few only. Source Source Dietrich gives the population of the world as 12 88 millions of which 369 millions are Tongolian 190 African, 1 American, & 200 Malay. In Europe there are 89 to a sq. mile. Asia 32, Africa 14, America 4. (Sunot) The most populous countries are TZOM Egypt, 1767 to a eg. league, China, and England 1457. France has 1062, Rus-POPULOUS COUNTRIES sia 161, Sweden & Norway 182, U.S., 58, and S. America. 21. London I what to 1220 spft; Pand 1 to 5005 1/1 Philadelphia has more houses than any HOUSES. other city, over 100000 houses, 1870. Hentterhoralmer In wrope, there is I marriage to MARRIAGES. 121, inhabitants; in the 20. S. 1 to 102 In Europe the extremes are, Russia 1699 & France 1 to 134. The average number of births to a BIRTHS. marriage, is 4.

-A new estimate of the population of the globe, based on the very latest returns, has just been published by Gotha statisticians, who make the sum total to be 1,377,000,000 souls.— The

18121

J.B. I will not question on the figures V.

Ather Cecture on Notal Statistics - unless
who there items designated as of special importance.

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fifty years old. Plast in Zenera Vitaland.

They show that in that time, the
average length of life has been the average length of life has been doubled. All the figures which are given, are merely approximations. I select for only. Dietrick gives the population of the Modry Som world as 1288 millions of which 369 millions are Caucasian, 552 Mongolian 190 African, 1 American, 8 200 Malay. In Europe there are 89 to a sq. mile. Asia 32, Africa 14, America 4. (Sunot) The most populous countries, are Egypt, 1767 to a sq. league, China, and England 1457. France has 1062, Fus-TZOM POPULOUS COUNTRIES sia 161, Sweden & Norway 182, U.S. 58, and S. America. 21. London I what to 1220 sy H; Pano 1 to 5005 W. Philadelphia has more houses than any other city, our 100000 houses, 1800. Few terker almost In wrope, there is I marriage to MARRIAGES. 121, inhabitants; in the 20. S. 1 to 102 In Europe the extremes are, Kussia 1699 & France 1 to 134. The average number of births to a BIRTHS. marriage, is 4.

114. Jans foster than his Cestinate.

The number is greatest in prosperity varying with the supply of grain. Let the educated & wealthy have smaller families than the poor. It may be that the development of the nervous system is unfavorable to fertility. Ir M'allens "physiological law of increase. ? PROPORTION OR BIRT 45 Touthes to population: - Tussia line 3, Austria I in 26, Prussia 27, England 31, POPULATION France 29. (No. S. 1 in 35 Eupposed to be an La Europe, the population increases in a geometrical ratio; 2-4-5 - mans / this time She population of the co. I doubted POUBLE in 25 yrs; quadrupled in 50 years. Mation Independently of immigration, it 25, has increased faster than that of any other country. This is a contradiction of the assertion that there is a degeneration of race in America Bondin says that Belgium dou-bles its population in 41 years, Hol-HOLLAND ENGLAND land in 42, England in 78.

116. A System of Consoription, Large stanting army has been literally numous to France, Drug Commen was Surreous noted the markers differen in endurance were wounds toperations, between English Strend Soldiers ; the French have two questest relative mortality under anjuries, the averene trench phypique tras no doubt degenerates, - and with it the morales time the first Mapoleone wars. (Physique broade not one, but much connected) - 3 causes of Detestoration there have acter for many years; 1., the Semevoluntary celibacy of a numerous Roman Catholic preethood & Sisterbood; E. the enforced celitary of all regular soldiers; 3. the come printing frother great from the childre states wen have shown to be the great from two causes of European wars, are now proved by the metance of house at least to be otherwise and every way detrimental to the interests of nations.

117. Germany in 79, Russia in 99, and Frange in 138. And the was beforethe wary 1870-74 There are more males than females born to There is also an excess I male EXCESS MALE BIRTHS. deaths, In the 1st. year more males die. In the 2nd. the proportion is equal. 14-15 more females; 21-26 more males; 31-45 more females; over 45 more males. PROPORTION MALES Proportion of males to females: - In New England, females are in excess; FEMALES. in lotah also. In California not long ago, there were 19 females to 100 males. Connecticut is intermediate. Deaths to population: - In hance, 1 to 45, to 1 to 40; Mussia 1 in 28, Austria 1 in 33, Prussia 1 in 38, England 1 in, 45, Massachusetts I'm 47, Co. S. lin 45. In France, the mean duration of life is 34 years, It has gained 5 years in 60 In the manufacturing districts of France, 25 years is the mean duration. After great wars and pestilences,

Since the war, Su Home Book)

Francisco (before reported accessory of burned at sea in lat 2 N, lon 1255 W, on the 3d of May. One of the ship's boats, containing twelve of the crew, two passengers, named Ferguson, and the captain, arrived at the Sandwich Islands on the 18th of June, in a state of starvation, having been exposed in the long boat 43 days. Two other boats, with about twenty persons, in charge of the first and second mates, continued in company until the nineteenth day, and are ret to be heard from. The ship had a large quantity of kerosene on board, and it is supposed the fire originated from it or near it, as the vessel was consumed so fast that they could scarcely save anything.

Schr Charlotte Fish, from Boston for Philadelphia, was in context with an unknown schr night of the 7th inst on Nantucket Shosis; lost jibboom and head gear, and put into Holmes' Hole on the 8th. unusual number of birth ss of male birth's sband is a dozen years wifes the children are and put into Holmes' Hole on the 8th. GOODS FOR THE LADIES. males vice versa. MERINO GAUZE ER-GARMENTS tyres, foreigners have more male children, & natives more female. In 1863 Dr. Snow of Providence gave PIPE Jor New York, a mortality of 1 in \$ 5,7 Boston I in 41.2, Newark 43.5, Providence 45 Hartford 54.8, Jondon 45, Liverfrool 44, Philadelphia Som 1 in 44 to 1 in 5%. his her till it mortality in New York is great and The mortality of New Orleans, of fearful, AGE Ageat death: Six per cent die in AGE In England the average age at-death is 29. Marchester 20, Twerpool 17, The world Lover in the country than in cities.

Since the war,

STATURE OF AMERICAN SOLDIERS.

At the session of the American Academy of Science the other day, a paper was read by Dr. B. A. GOULD, which, not peing upon so abstruse a subject as is usually discussed by the majority of the savans, is likely to interest the public. It was upon "the stature of the American soldiers," and was founded upon the measurement of one million of soldiers-quite sufficient for any one to found a number of very pretty themes upon. These measurements are not taken, at least not preserved, in the first months of the war. It was not until recruiting had become a regular thing that attention was paid to the necessity of preserving the Government records of the height of soldiers. From the results of the records it is shown that

See Home Book!

119. there is an unusual number of birth and an encess of male births. When the hysband is a dozen years older than the wife, the children are generally all males vice versa. In Buenos Ayres, foreigners have more male children, & natives more female In 1863 Dr. Snow of Providence gave MORTALITY for New York, a mortality of 1 in \$5,7 Boston In 41.2, Newark 43.5, Providence 45 Hartford 54.8, Jondon 45, Liverfrool 44, Philadelphia Som 1 in 44 to 1 in 5%. Increasing, especially in Children, The mortality of New Orleans, is fearful, AGE Ageat death: Six per cent die in AGE In England the average age at-death is 29. Manchester 20, Viverpool 17, The world over 33 Long with country than in cities.

120 STANK OF A CONTRACT THE STANK OF THE STANK the many property of the second American the state of the state Martin the first in the same will THE PERSON AND THE PROPERTY OF THE PARTY OF THE PARTY. Morking women in all avocations, have harder times than men; they receive less wages even for the same kind of work; I, who self-dependent often Ruffer grate Brustions. The differences between their remuneration for Cabor, skilled brunskelled, and that of men, is too great for Justice

Anglo Brazilian Fines, 1873 Phil mas Timo april 12, 73) asserts that at a record course in Brazil, there was found living at Cape this, Jose Martino Continho, 178 years old in 1872. Married 6 times, had 42 children, 123 grandchildren, 86 gr. grand che, 23 gr. gr. grand ch. & 20 children of It to taster; 294 descendants Offring his lefe-time, number up to 300. The part of it most open to Doubt, of course, is the number of his our years; but that is not impossible. Sept. 17# 1873, Christian Union quotes from Louintle Conner-Source account of a physician who had just wested ... Lottere Inov, a black man living at Estran Termison 124 years old; says he was 25 whathe Revolutioner war broke out.

122.

123 Instances of Old Age: - Hippoe-ACK. St. Jerome 100. Lilian & Cornard, near ly 100, A Francis 140, Jas. favorence 143, Thos. Winslow, 146, for Offingham 144. Elande Jacob 126, Jos. Kreele Ca great En France in 1842, there were 46 over 100. Causes of death: - War & accident DEATH. take of many hundreds of thousands in modern wars! PHTHISIS. Phthisis takes, the lead. In England Maryland 200001 wood beaths U.S. Centers of 1880. DIARRHOLA except that all fevers together would be more, 2000 annually in Eurland from typhoid alone. Diseases of children are worse in the north, yet they are mostin summer. Dr. Jarris says that of 1000 deaths in Massachusetts, 314 werefrom the bings 137 digestive organs, 78 brain, 54 old age. In England ofhthisis, to lighties. to small por. Ththisis & preumonia are Commoner tatities 1 Disease

125 this nappens-he is for ever afterwards prohibited from practising his profession-a regulation that might, perhaps, prove advantageous in other countries. Visits are never charged; they simply charge for the medicine used, and it in cities the is always on trust until the patient gets betterconditions not very favorable for large incomes In this cil and great wealth .- Dr. Wiley, Cinn. Lancet and naj. Observer. is consumpl A Fatal Epidemic in the Island of Mauritius. lu-The Overland Commercial Gazette, a paper monia, convi printed at Mauritius, gives a full account of a disease raging on that Island, and especially at phus & typhos Port Louis. ef. This disease is a non-contagious fever, yet it is Small- pol epidemic, and has assumed a most virulent form. Upwards of six thousand persons died in March, and the first half of April the mortality of the island reached upward of five thousand more. The smalle 00 Port Louis alone, during this latter period, lost two thousand eight hundred and seventy-nine, in some ru nd. out of a population of eighty thousand. The MOUNY disease seems to be confined mainly to the north-Amount of west part of the island, and the number of deaths up to the 18th of April, is estimated at 13,564 in DISEASE the aggregate. portant to The cause of the disease is thought to be the filthy and crowded state of affected districts-at sick sofuh least, it is much aggravated by this, since those plantations where any care has been taken have been nearly free from the epidemic. Medicine is neglect this. also exceedingly scarce, and on the 15th of April wining was nublicly sold, at £12 an ounce. The In Marchester there is I death for 28 cases of sickness. In our army 1 for 6 cases. The greater the movtality the greater the amount of sickeless. new moter - Statistics of Disease. SICK We now take up the subject 800M. Hygiene of the Sick Room: - The prac die of medicine is getting to be more and more hygienic. The elements of importance in the sick room, are, light, sound, clothing, air, food. & mental management. Influence of Condensation of Population on Life.

The Boston correspondent of the New York Evening Post, says that Dr. EDWARD JARVIS, of Dorchester, recently read a paper on the effect of Condensation of Population on Life, from which it appears that it is extremely rare to find a citizen of Paris with many generations of Parisians among his progenitors. London needs ten thousand recruits from the country every year to keep its numbers good. There is a much larger proportion of deaths by zymotic and nervous diseases in the city than in the country, while the proportion of deaths by old age is thirty-seven per cent. larger than in the city. The mortality of children is much larger in cities than in the country-the excess of deaths of children under five years in English towns and cities from 1851 to 1860, being one huudred and fifty-two per cent. over the population prevailing in the country. Much of this excessive mortality is attributable to destitution and privation; the dangerous occupations and protracted labors of many of the inhabitants of cities; the compactness, narrowness and crookedness of the streets, leaving little chance for the circulation of air; and the extreme mental exertion and undue expenditure of the vital powers by the better classes. In so far as the causes could be removed the rate of mortality will be lessened. Sanitary improvements in nineteen towns and cities of Great Britain had reduced the rate of mortality from twenty-eight in one thousand to twenty-one in one thousand. In Liverpool the decrease was thirty per cent.

tatisties Disease

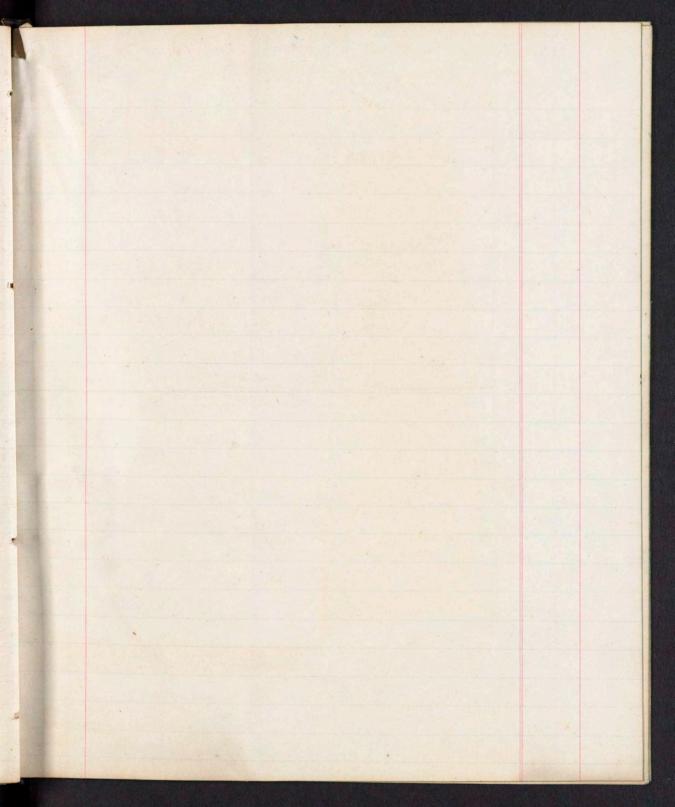
125 in cities than in the country In this city the order of frequency. is consumption, scarlet fever, prieumonia, convulsions, marasmus, typhus & typhotod, diarrhead disentery.
Small-pox.
The smallest mortality is 17 in 1000 in some rural districts of England. Amount of disease: It is im-DISFASE portant to know how many are sick sofishat sick. Physicians neglect this. I show Planta has distributed In Marchester there is I death for 28 cases of sickness. En our grong 1 for 6 cases. The greater the mov-SICK We now take up the subject of 800M. Hygiene of the Sick Room: - The prac nove and more hygienic. The elements of importance in the sick room, are light, sound, clothing, air, food. I mental management. 126. no oriente de Arran artico en 1 april 18 18 18 18 18 18 18 the salidation of the stand of the train A STATE OF THE STA

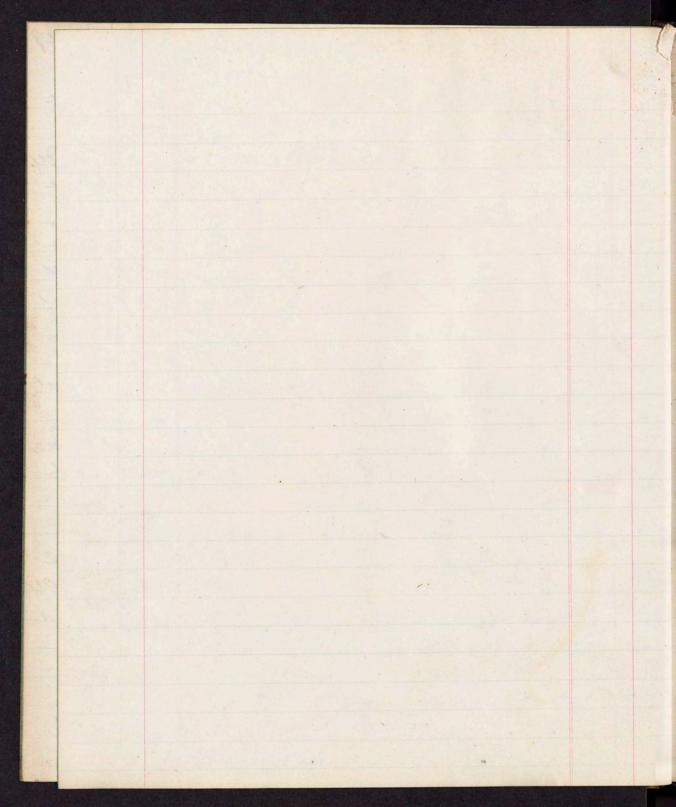
some inflammatory Light: In all acute diseases, it must be excluded. In chronic diseases. it must not In choosing a consumptive's room, it should be sunny & cheerful. Sound: - An irritable brain must not be jarred It is barbarous to stamp into a sick room. The physician must have oregard to the state of the patient. Such dittle things materially affect a physicians success-Clothing: - It must be adapted to the needs of the patient. It must be changed frequently to allow of transpiration. Nurses are often afraid to change a patients clothing because of the colds fatigue, Some times this is a very good excuse, but when possible it is best to change. Air: - It is necessary for the Rick. A gentleman who had tiffhoid preu-monja could not suffer the windows to be shut, although it was so cold

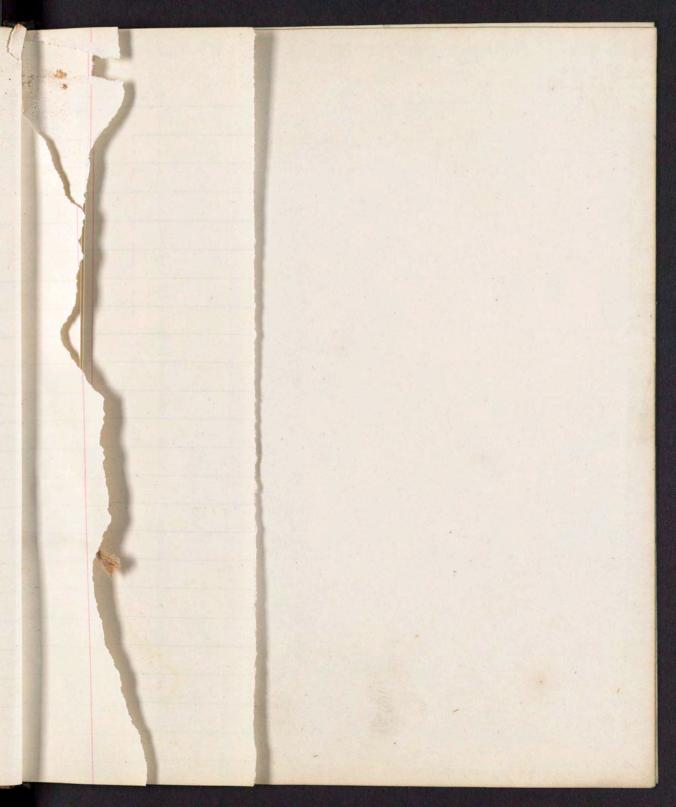
128. Vinelly the start of the little of the a specifical man it is is touch Stated a little willed to fine to write for a land for all grade or week or com-

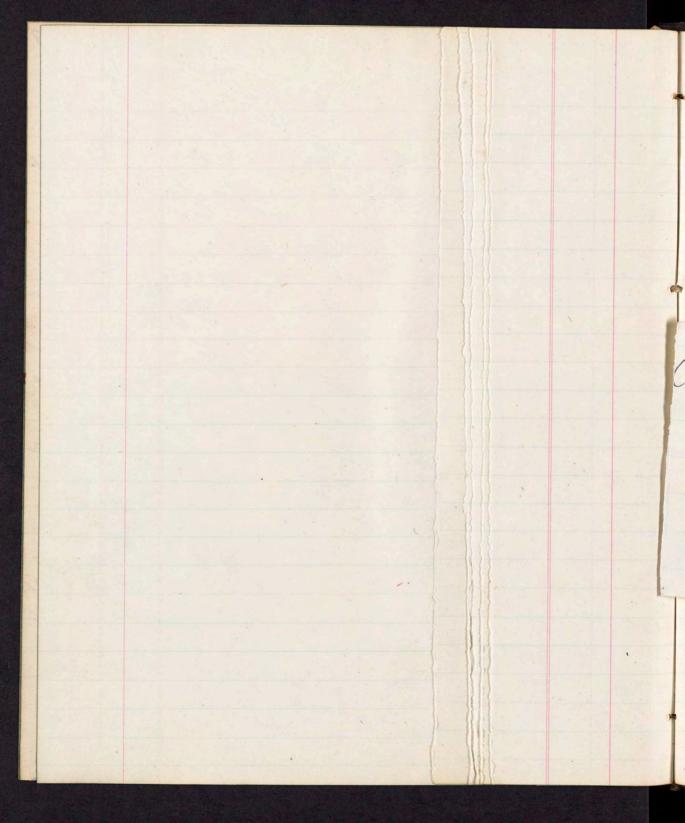
that a large fire had to be kept in the room. Good: This has been beated of already. Mental management: - Judgment is necessary in attending the sick. Sometimes a person, in the hearing of the patient, well anxiously ask the physician "how longwill relie?" Such things are out of place. It generally has a bad effect. Sometimes however, it revives a patent A gentleman overheard his physicians talking of his death. One said "I would like to be present at the post-morten". This iname diately revived him, Recoveries often happen mirac-ulously, so that we should not say that a person will die, until there is no hope left. For moval reasons we cannot disquise the facts often. We must be careful to avoid

Fred withing had been beautifully gibers









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